

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564140

Luminaire Tested: **SQ4-PR1-0U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564140
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

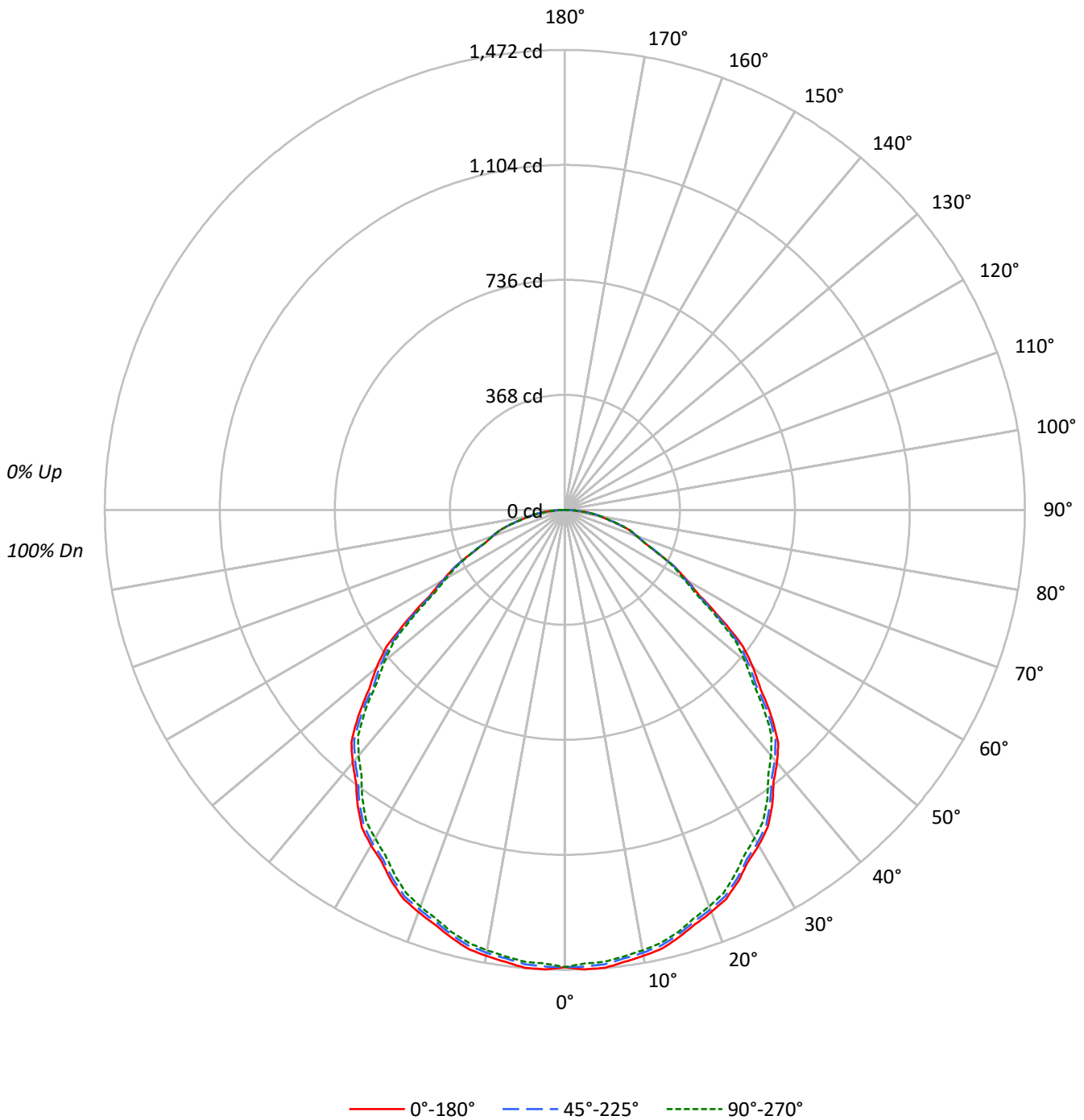
Lumens per Lamp: N/A
Luminaire Lumens: 3658.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6750	6750	6750
5°	6811	6759	6724
10°	6790	6743	6707
15°	6760	6718	6682
20°	6726	6682	6633
25°	6679	6634	6556
30°	6606	6559	6466
35°	6509	6452	6360
40°	6360	6292	6179
45°	6101	5994	5871
50°	5644	5509	5400
55°	4927	4815	4714
60°	4152	4117	4036
65°	3591	3604	3577
70°	3298	3315	3315
75°	3167	3167	3190
80°	2981	3013	2981
85°	2403	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.8
10°-20°	395.9	10.8
20°-30°	597.2	16.3
30°-40°	711.5	19.5
40°-50°	701.5	19.2
50°-60°	536.1	14.7
60°-70°	331.8	9.1
70°-80°	188.4	5.2
80°-90°	57.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1131.5	30.9
0°-40°	1843.0	50.4
0°-60°	3080.6	84.2
0°-90°	3658.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1471	1455	1460	1454	1452	140
15°	1415	1401	1407	1402	1399	399
25°	1312	1296	1303	1289	1288	604
35°	1156	1142	1146	1131	1129	721
45°	935	923	919	902	900	716
55°	613	603	599	589	586	549
65°	329	326	330	328	328	333
75°	178	178	178	179	179	188
85°	45	48	50	50	50	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.3	1463.3	1463.3	1463.3	1463.3
2.5°	1472.4	1459.6	1463.3	1460.2	1453.2
5°	1470.9	1454.9	1459.6	1454.5	1452.0
7.5°	1459.6	1443.8	1448.5	1443.4	1441.9
10°	1449.5	1434.7	1439.4	1434.3	1431.8
12.5°	1438.4	1422.6	1428.3	1422.2	1419.7
15°	1415.4	1400.6	1406.6	1401.5	1399.1
17.5°	1390.2	1374.5	1380.4	1374.5	1371.3
20°	1370.1	1355.3	1361.2	1352.4	1351.2
22.5°	1347.9	1333.1	1339.1	1327.2	1327.0
25°	1312.1	1296.1	1303.3	1289.4	1288.1
27.5°	1269.5	1254.7	1260.7	1246.5	1245.0
30°	1240.2	1225.5	1231.4	1216.2	1213.8
32.5°	1207.0	1193.2	1198.1	1183.0	1181.5
35°	1155.8	1142.2	1145.7	1130.6	1129.3
37.5°	1097.6	1085.2	1087.2	1070.6	1069.3
40°	1056.2	1043.9	1044.9	1027.2	1026.0
42.5°	1010.8	998.5	997.5	979.8	978.6
45°	935.2	922.9	918.8	902.4	899.9
47.5°	849.0	836.7	829.1	815.7	814.0
50°	786.5	774.2	767.6	756.2	752.5
52.5°	718.9	706.6	701.0	690.6	686.9
55°	612.6	602.7	598.7	588.6	586.1
57.5°	511.5	504.8	503.7	493.8	492.8
60°	450.0	446.3	446.2	437.4	437.4
62.5°	397.5	394.8	396.8	391.0	390.0
65°	329.0	326.5	330.2	327.7	327.7
67.5°	274.8	274.8	277.0	276.0	276.0
70°	244.5	244.5	245.8	245.8	245.8
72.5°	217.3	216.3	219.6	219.5	218.6
75°	177.7	177.7	177.7	179.0	179.0
77.5°	138.4	138.6	139.7	139.4	138.4
80°	112.2	113.4	113.4	112.2	112.2
82.5°	86.0	87.2	87.2	86.9	86.0
85°	45.4	47.8	50.4	50.4	50.4
87.5°	13.1	17.1	20.2	20.1	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)